DECLARATION AND POWER OF ATTORNEY

REGULAR OR DESIGN APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

POLYMER BRUSHES FOR IMMOBILIZING MOLECULES TO A SURFACE OR SUBSTRATE, WHERE THE POLYMERS HAVE WATER-SOLUBLE OR WATER-DISPERSIBLE SEGMENTS AND PROBES BONDED THERETO

the specification of which:

(check one)

| [] | is attached hereto |
|-----|--|
| [x] | was filed on <u>July 3, 2000</u> as Application Serial No. |
| | 09/609,461, and was amended on |
| [] | was described and claimed in PCT International Application |
| | No, filed on and as amended |
| | under PCT Article 19 on, if any. |

ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations §1.56.

PRIORITY CLAIM

I hereby claim foreign priority benefits under Title 35, United States Code, §119 (a) - (d) or §365(b) of any foreign application for patent or inventor's certificate, or §365(a) of any PCT application which designates at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Priority Claimed

| (Number) | (Country) | (Day/Month/Year Filed) | | |
|----------|--------------------|----------------------------------|--|--|
| (Number) | (Country) | (Day/Month/Year Filed) | | |
| (Number) | (Country) | (Day/Month/Year Filed) | | |
| | Priority N | ot Claimed | | |
| | ARLIER THAN THE EA | HE SAME SUBJECT MATTER WHICH HAS | | |
| (Number) | (Country) | (Day/Month/Year Filed) | | |

CLAIM FOR BENEFIT OF PROVISIONAL APPLICATION(S)

I hereby claim the benefit under Title 35, United States Code, §119(e) of any United States provisional application(s) listed below.

| 60/146,936 | 07/31/99 |
|----------------------|---------------|
| (Application Number) | (Filing Date) |
| 60/177,879. | 01/24/00 |
| (Application Number) | (Filing Date) |

CLAIM FOR BENEFIT OF EARLIER U.S. APPLICATION(S) UNDER 35 U.S.C. 120

I hereby claim the benefit under Title 35, United States Code, \$120 of any United States application(s), or \$365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code \$112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, \$1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

| 09/347,606 | 07/02/99 | <u>pending</u> | |
|--------------|---------------|----------------|----|
| (Serial No.) | (Filing Date) | (Status) | |
| 09/347,607 | 07/02/99 | pending | |
| (Serial No.) | (Filing Date) | (Status) | |
| 09/347,608 | 07/02/99 | pending | |
| (Serial No.) | (Filing Date) | (Status) | |
| 09/347,609 | 07/02/99 | pending | |
| (Serial No.) | (Filing Date) | (Status) | ·. |

POWER OF ATTORNEY

I hereby appoint the following attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: Irving Powers (15,700), Donald G. Leavitt (17,626), John K. Roedel, Jr. (25,914), Michael E. Godar (28,416), Edward J. Hejlek (31,525), William E. Lahey (26,757), Richard G. Heywood (18,224), Frank R. Agovino (27,416), Kurt F. James (33,716), G. Harley Blosser (33,650), Paul I. J. Fleischut (35,513), Vincent M. Keil (36,838), Robert M. Evans, Jr. (36,794), Robert M. Bain (36,736), Joseph A. Schaper (30,493), Kathleen M. Petrillo (35,076), David E. Crawford, Jr. (38,118), Paul A. Maddock (37,877), Scott A. Williams (39,876), Richard L. Bridge (40,529), David M. Gryte (41,809), Christopher M. Goff (41,785), James E. Butler (40,931), Derick E. Allen (43,468), Matthew L. Cutler (43,574), Michael G. Munsell (43,820), Robert J. Lewis (27,210), Karen Y. Hui (44,785), Anthony R. Kinney (44,834), Brian P. Klein (44,837), Sarah J. Chickos (46,157), Donald W. Tuegel (45,424), Steven M. Ritchey

(46,321), Michael J. Thomas (39,857), and Kathryn Doty (40,593), all of the law firm of SENNIGER, POWERS, LEAVITT & ROEDEL, One Metropolitan Square, 16th Floor, St. Louis, Missouri 63102 and Ronald A. Krasnow (33,321) and Paul A. Stone (38,628) of Symyx Technologies, Inc. of 3100 Central Expressway, Santa Clara, California 95051.

| | Send Correspondence To: Direct Telephone Calls To: | | | |
|--|---|--|--|--|
| | Customer Number: 000321 Derick E. Allen (314) 231-5400 | | | |
| , mar. 1999. | I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon. | | | |
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| | Full name of sole or first inventor <u>Gerrit Klaerner</u> | | | |
| Inventor's signature 6 07127 | | | | |
| | Residence <u>Campbell, California</u> Citizenship <u>German</u> | | | |
| | Post Office address 3100 Central Expressway | | | |
| | Santa Clara, CA 95051 | | | |
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| | Full name of second joint inventor Ralph B. Nielsen | | | |
| | Second inventor's signature Land Bloken Date 7/75/00 | | | |
| | Residence San Jose, California Citizenship U.S. | | | |
| | Post Office address 3100 Central Expressway | | | |
| | Santa Clara CA 95051 | | | |

| Full name of third joint inventor Paul Mansky |
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| Third inventor's signature Date 121/00 |
| Residence San Francisco, California Citizenship U.S. |
| Post Office address 3100 Central Expressway |
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| Full name of forth joint inventor <u>Didier Benoit</u> |
| Forth inventor's signature Date 7/21/2000 |
| Residence <u>San Jose, California</u> Citizenship <u>French</u> |
| Post Office address 3100 Central Expressway |
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| Full name of fifth joint inventor <u>Dominique Charmot</u> |
| |
| Fifth inventor's signature Date 7 25 2000 |
| Residence Los Gatos, California Citizenship French |
| Post Office address <u>3100 Central Expressway</u> |
| Santa Clara, CA 95051 |
| |
| Full name of Sixth joint inventor Bernd Jandeleit |
| Sixth inventor's signature S' Cardell Date Of 24/00 Residence Palo Alto, California Citizenship German |
| Post Office address 3100 Central Expressway |
| Santa Clara, CA 95051 |

| Full name of Seventh joint inventor <u>Laura T. Mazzola</u> |
|---|
| Seventh inventor's signature Matha. Date 7-21-200 |
| Residence Redwood City, California Citizenship U.S. |
| Post Office address 3100 Central Expressway |
| Santa Clara, CA 95051 |

ASSIGNMENT OF PATENT APPLICATION

WHEREAS, Gerrit Klaerner of Campbell, California, Ralph B. Nielsen of San Jose, California, Paul Mansky of San Francisco, California, Didier Benoit of San Jose, California, Dominique Charmot of Los Gatos, California, Bernd Jandeleit of Palo Alto, California, and Laura T. Mazzola of Redwood City, California, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below identified application for United States Letter Patent:

Title of Invention: POLYMER BRUSHES FOR IMMOBILIZING MOLECULES TO A SURFACE OR SUBSTRATE, WHERE THE POLYMERS HAVE WATER-SOLUBLE OR WATER-DISPERSIBLE SEGMENTS

AND PROBES BONDED THERETO

Filing Date: July 3, 2000 Application No.: 09/609,461; and

WHEREAS, Symyx Technologies, Inc., a Delaware corporation, located at 3100 Central Expressway, Santa Clara, California 95051, hereinafter referred to as "Assignee," is desirous of acquiring an interest in the invention and application and in any Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application, and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's

expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

| Date: 07125100 | Gerrit Klaerner |
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| STATE OF COUNTY OF COUNTY OF | |
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| error. | |
| Notary Public, personally appeared Gerrit Klaerne | r, personally known to me (or proved to me on |
| the basis of satisfactory evidence) to be the person | (s) whose name(s) is/are subscribed to the |
| within instrument and acknowledged to me that he | s/she/they executed the same in his/her/their |
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| Signature () V () () () () () () () () (| |
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Date: 25 July 2000

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On 7/25/CT, before me, Management of the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WINESS my hand and official seal

Signature

RENEE LAMANTA

Commission # 1252508
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| | Docket SMX 3093 (99-100R1) Page 4 of 8 |
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| , , | Paul Mansky |
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| Public, personally appeared Paul Mansky, per | sonally known to me (or proved to me on the basis |
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| the entity upon behalf of which the person(s) | acted, executed the instrument. |
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| Signature 2000 Communica | RENEE LAMANTIA Commission # 1292998 Notary Public - Coffords Santo Clara County My Comm. Biphes Feb 15, 2004 |
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| Date: July 25, Low | Harmet |
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| | Dominique Charmot |
| COUNTY OF COUNTY OF | |
| On, before me, _ | PRE ANGINE , Notary |
| Public, personally appeared Dominique Charmot, p | personally known to me (or proved to me on |
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| () | | Laura T. | Mazzola | | |
| COUNTY OF COUNTY OF | · . | | | | |
| On 72100 ,1 | before me, _ | 1,8150 | (alive | intia | , Notary |
| Public, personally appeared Laura T. M. | lazzola, per | sonally kno | wn to me (| or proved to | me on the |
| basis of satisfactory evidence) to be the | e person(s) v | vhose name | e(s) is/are su | bscribed to | the within |
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